

WHAT IS CLAIMED IS:

1. An image forming apparatus comprising:
a reception section receiving a data broadcasting signal including
print-out data and a control signal associated with print-out;

5 a detection section detecting said print-out data and said control
signal associated with print-out from said received data broadcasting
signal;

a storage section storing said detected print-out data into a memory
apparatus; and

10 an output section printing out said print-out data stored in said
memory apparatus based on said detected control signal associated with
print-out.

2. The image forming apparatus according to claim 1, wherein
in a case where said control signal associated with print-out is
detected in said detection section in a state where print-out is disabled,
print-out of said print-out data is inactive on standby till a second control
5 signal associated with print-out is detected in said detection section after
said state where print-out is disabled is cleared.

3. The image forming apparatus according to claim 1, further
comprising:

5 a transition section, in response to detection of said print-out data in
said detection section in a second state other than a first state where print-
out is enabled, transitioning from said second state to said first state.

4. The image forming apparatus according to claim 1, further
comprising:

an end detecting section detecting the end of data broadcasting from
said received data broadcasting signal; and

5 an erasure section, when the end of said data broadcasting is
detected, erasing said print-out data stored in said memory apparatus.

5. A printing system comprising a data broadcasting receiving terminal and an image forming apparatus,
said data broadcasting receiving terminal including:
a reception section receiving a data broadcasting signal including
5 print-out data and a control signal associated with print-out;
a detection section detecting said print-out data and said control signal associated with print-out from said received data broadcasting signal;
a first notification section notifying said image forming apparatus of
10 said detected print-out data; and
a second notification section notifying said image forming apparatus of said control signal associated with print-out, and
said image forming apparatus including:
a storage section storing said print-out data notified from said data
15 broadcasting receiving terminal by said first notification section in a memory apparatus; and
an output section printing out said print-out data stored in said memory apparatus based on said control signal associated with print-out notified from said data broadcasting receiving terminal by said second notification section.
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6. The printing system according to claim 5,
said image forming apparatus further including a restoration section, when said control signal associated with print-out is notified from said data broadcasting receiving terminal by said second notification section in a state where print-out is disabled, restoring said image forming apparatus from said state where print-out is disabled, and
5 said image forming apparatus is inactive on standby till a second control signal associated with print-out is notified from said data broadcasting receiving terminal by said second notification section after
10 said image forming apparatus is restored by said restoration section from said state where print-out is disabled.

7. The printing system according to claim 5,
said image forming apparatus further including a transition
notifying section notifying said data broadcasting receiving terminal of
transition from a first state where print-out is enabled to a second state
other than said first state and
5 said data broadcasting receiving terminal further including a
commanding section issuing a command for transition to said first state to
said image forming apparatus based on said notification of transition to
said second state from said image forming apparatus by said transition
notifying section, when print-out data is detected from said received data
10 broadcasting signal in said detection section.
8. The printing system according to claim 5,
said image forming apparatus further including:
5 a transmission section, in a case where print-out is disabled after
said print-out data is notified from said data broadcasting receiving
terminal by said first notification section, transmitting a first time data,
which is a time till the start of print-out is enabled, to said data
broadcasting receiving terminal, and
said data broadcasting receiving terminal further including:
an extraction section extracting a second time data, which is a time
10 difference between a timing at which broadcasting data included in said
data broadcasting signal is reproduced from said detected control signal
associated with print-out and a timing at which said detected print-out
data is printed out; and
15 a determination section determining a timing at which said detected
control signal associated with print-out is notified to said image forming
section in said second notification section based on said first time data
transmitted by said transmission section of said image forming apparatus
and said extracted second time data.
9. The printing system according to claim 5,
said data broadcasting receiving terminal further including:

an end detecting section detecting the end of data broadcasting from said received data broadcasting signal; and

5 an end notifying section notifying said image forming apparatus of said detected end of data broadcasting, and

 said image forming apparatus further including:

 an erasure section erasing said print-out data stored in said memory apparatus when said end of broadcasting is notified from said data

10 broadcasting receiving terminal in said end notifying section.

10. A printing system comprising a data broadcasting receiving terminal and an image forming apparatus,

 said data broadcasting receiving terminal including:

 a detection section detecting print-out data and a control signal

5 associated with print-out from a data broadcasting signal that said data broadcasting receiving terminal has received;

 a notification section notifying said image forming apparatus of said detected print-out data;

 a printing start notifying section, in a case where said detected

10 control signal associated with print-out is a signal indicating the start of print-out of said print-out data, notifying said image forming apparatus of printing start data commanding said start of print-out of said print-out data; and

 a printing prohibition notifying section, in a case where said detected

15 control signal associated with print-out is a signal indicating prohibition of print-out of said print-out data, notifying said image forming apparatus of printing inhibition data commanding said prohibition of print-out of said print-out data.

11. An information processing apparatus comprising:

 an acquirement section acquiring a program from a predetermined access target;

 a reception section executing said acquired program to thereby

5 receive information including video information and print-out data;

- a separation section separating said video information and said print data from said received information;
- a storage section storing said separated print-out data in a memory apparatus; and
- 10 a commanding section issuing a command for printing out said print-out data stored in said memory apparatus to said image forming apparatus at a predetermined timing in reproduction of said separated video information.
12. A data transmission method comprising the steps of:
transmitting print-out data for print-out together with video information, as a first transmission step; and
transmitting a control signal associated with print-out of said print-out data together with said video information, linking with a timing at which said video information is reproduced, as a second transmission step.
- 5 13. The data transmission method according to claim 12, wherein said video information is a video frame included in a moving picture, said control signal associated with print-out transmitted with a link with a timing at which said video information, which is one frame of said moving picture, is reproduced in said second transmission step is a signal indicating at least one selected from the group consisting of the start of print-out of said print-out data, prohibition of print-out of said print-out data, a time from when said video information, which is one frame of a moving picture, is reproduced till print-out of said print-out data starts, erasure of said print data and a condition for print-out of said print-out data.
- 10 14. A data transmission program product causing a computer to execute data transmission processing comprising the steps of:
detecting print-out data from a received data broadcasting signal as a first detection step;
5 detecting a control signal associated with print-out from said

received broadcasting signal as a second detection step;
sending out said print-out data detected in said first detection
section to an image forming apparatus as a sending out step; and
issuing a print-out command for said print-out data to said image
10 forming apparatus based on said control signal associated with print-out
detected in said second detection step as a commanding step.

15. The data transmission program product according to claim 14,
causing a computer to execute data transmission processing further
comprising the steps of:

detecting the end of said data broadcasting from said received data
5 broadcasting signal, as a third detection step; and

commanding erasure of said print-out data to said image forming
apparatus when said end of data broadcasting is detected in said third
detection step, as an erasure commanding step.

16. The data transmission program product according to claim 14,
wherein

said control signal associated with print-out is a signal indicating a
time difference between a timing of reproduction of broadcasting data
5 included in said data broadcasting signal, from which said control signal
associated with print-out is detected and a timing of print-out of said print-
out data.

17. The data transmission program product according to claim 14,
wherein

said control signal associated with print-out of said print-out data, in
said second detection step, is detected from a second data broadcasting
5 signal different from said data broadcasting signal, from which said print-
out data is detected in said first detection step.